

What Is Claimed Is:

1. An air-activating device constructed as an air-activating body made of material with magnetism or far infrared radiation, the air-activating body having a plurality of vent holes whose internal diameter becomes smaller from one end (inlet) toward the other end
5 (outlet),

whereby the airflow in passing through the vent holes can be squeezed for increasing its flowing speed, and the air-activating body utilizes its magnetic lines of force or far infrared radiation to activate the passing air for an effective increase of the engine performance and for a desired protection against air pollution.

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2. The air-activating device of claim 1 wherein the vent holes are closely disposed next to each other for reducing the clearance between every two adjacent inlets to form a thinner windward part, and wherein the clearance between every two adjacent outlets forms a thicker leeward part so that, thanks to the thinning of the windward parts, the windward
15 resistance can be effectively minimized for protection against airflow disturbance.

3. The air-activating device of claim 1 wherein the diameter of the inlets and the diameter of the outlet are preferably in a ratio of 16.545 to 10.

- 20 4. The air-activating device of claim 2 wherein the diameter of the inlets and the diameter of the outlet are preferably in a ratio of 16.545 to 10.

5. The air-activating device of claim 3 wherein the diameter of the inlets preferably amounts to 4.55 mm and the diameter of the outlet preferably amounts to 2.75 mm.
6. The air-activating device of claim 4 wherein the diameter of the inlets preferably amounts to 4.55 mm and the diameter of the outlets preferably amounts to 2.75 mm.
7. The air-activating device of claim 1 wherein the thickness of the windward parts and the thickness of the leeward parts are preferably in a ratio of 1:10.
8. The air-activating device of claim 2 wherein the thickness of the windward parts and the thickness of the leeward parts are preferably in a ratio of 1:10.
9. The air-activating device of claim 3 wherein the thickness of the windward parts and the thickness of the leeward parts are preferably in a ratio of 1:10.
10. The air-activating device of claim 4 wherein the thickness of the windward parts and the thickness of the leeward parts are preferably in a ratio of 1:10.
11. The air-activating device of claim 7 wherein the thickness of the windward parts preferably amounts to 0.2 mm and the thickness of the leeward parts preferably amounts to 2 mm.

12. The air-activating device of claim 8 wherein the thickness of the windward parts preferably amounts to 0.2 mm and the thickness of the leeward parts preferably amounts to 2 mm.
- 5 13. The air-activating device of claim 9 wherein the thickness of the windward parts preferably amounts to 0.2 mm and the thickness of the leeward parts preferably amounts to 2 mm.
- 10 14. The air-activating device of claim 10 wherein the thickness of the windward parts preferably amounts to 0.2 mm and the thickness of the leeward parts preferably amounts to 2 mm.
- 15 15. The air-activating device of claim 1 wherein the vent holes have a circular cross section in radial direction.
16. The air-activating device of claim 2 wherein the vent holes have a circular cross section in radial direction.
- 20 17. The air-activating device of claim 3 wherein the vent holes have a circular cross section in radial direction.
18. The air-activating device of claim 1 wherein the vent holes have a polygonal cross

section in radial direction.

19. The air-activating device of claim 2 wherein the vent holes have a polygonal cross section in radial direction.

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20. The air-activating device of claim 3 wherein the vent holes have a polygonal cross section in radial direction.